

# Contents

Anderson, E.S., s. Humphreys, G.O., et al. . . . .	101	Hall, R.M., Nagley, P., Linnane, A.W.: Biogenesis of Mitochondria. XLII. Genetic Analysis of the Control of Cellular Mitochondrial DNA Levels in <i>Saccharomyces cerevisiae</i> . . . . .	169
Babinet, C., s. Lecocq, J.-P., et al. . . . .	63	Hamelin, C., Chung, Y.S.: Rapid Test for Assay of Ozone Sensitivity in <i>Escherichia coli</i> . . . . .	191
Babudri, N., s. Monti-Bragadin, C., et al. . . . .	303	Henke, S., s. Nüsslein, V., et al. . . . .	183
Bailone, A., s. Lecocq, J.-P., et al. . . . .	63	Hernalsteens, J.P., s. Bomhoff, G., et al. . . . .	177
Benson, C.E., Gots, J.S.: Occurrence of a Regulatory Deficiency in Purine Biosynthesis among <i>purA</i> Mutants of <i>Salmonella typhimurium</i> . . . . .	31	Hixon, S., s. Juliani, M.H., et al. . . . .	249
Bergmans, J.E.N., s. Hoekstra, W.P.M., et al. . . . .	109	Hoekstra, W.P.M., Haan, P.G. de, Bergmans, J.E.N., Zuidweg, E.M.: Transformation in <i>E. coli</i> K12: Relation of Linkage to Distance between Markers (Short Communication) . . . . .	109
Besemer, J., s. Schmidt, F., et al. . . . .	145	Hoffmann, F., s. Thomas, E., et al. . . . .	245
Bilinski, T., s. Rytka, J., et al. . . . .	37	Hofnung, M., Jezierska, A., Braun-Breton, C.: <i>lamB</i> Mutations in <i>E. coli</i> K12: Growth of $\lambda$ Host Range Mutants and Effect of Nonsense Suppressors . . . . .	207
Bolotin-Fukuhara, M., s. Fukuhara, H., et al. . . . .	7	Hori, H.: Molecular Evolution of 5S RNA . . . . .	119
Bomhoff, G., Klapwijk, P.M., Kester, H.C.M., Schilperoort, R.A., Hernalsteens, J.P., Schell, J.: Octopine and Nopaline Synthesis and Breakdown Genetically Controlled by a Plasmid of <i>Agrobacterium tumefaciens</i> . . . . .	177	Hsu, H.-J., s. Fukuhara, H., et al. . . . .	7
Braun-Breton, C., s. Hofnung, M., et al. . . . .	207	Humphreys, G.O., Willshaw, G.A., Smith, H.R., Anderson, E.S.: Mutagenesis of Plasmid DNA with Hydroxylamine: Isolation of Mutants of Multi-copy Plasmids . . . . .	101
Cabezón, T., s. Lecocq, J.-P., et al. . . . .	63	Irani, M.H., Maitra, P.K.: Glyceroldehyde 3-P Dehydrogenase, Glycerate 3-P Kinase and Enolase Mutants of <i>Escherichia coli</i> : Genetic Studies . . . . .	65
Calendar, R., s. Fujiki, H., et al. . . . .	19	Ishiguro, J.: Study on Proteins from Yeast Cytoplasmic Ribosomes by Two-Dimensional Gel Electrophoresis . . . . .	73
Carbon, J., s. Covey, C., et al. . . . .	155	Ishihama, A., s. Taketo, M., et al. . . . .	311
Chung, Y.S., s. Hamelin, C. . . . .	191	Jayaraman, R., s. Sivasubramanian, N. . . . .	89
Ciriacy, M.: <i>Cis</i> -dominant Regulatory Mutations Affecting the Formation of Glucose-repressible Alcohol Dehydrogenase (ADHII) in <i>Saccharomyces cerevisiae</i> . . . . .	327	Jezierska, A., s. Hofnung, M., et al. . . . .	207
Coddington, A.: Biochemical Studies on the <i>Nit</i> Mutants of <i>Neurospora crassa</i> . . . . .	195	Jiménez-Sánchez, A.: The Effect of Nitrosoguanidine upon DNA Synthesis in vitro . . . . .	113
Covey, C., Richardson, D., Carbon, J.: A Method for the Deletion of Restriction Sites in Bacterial Plasmid Deoxyribonucleic Acid . . . . .	155	Johnston, L.H., s. Nüsslein, V., et al. . . . .	183
Cutting, G.J., s. Trembath, M.K., et al. . . . .	43	Jones, G.E., s. Dawson, W.O. . . . .	307
Dambly, C., s. Lecocq, J.-P., et al. . . . .	53, 63	Juliani, M.H., Hixon, S., Moustacchi, E.: Mitochondrial Genetic Damage Induced in Yeast by a Photoactivated Furocoumarin in Combination with Ethidium Bromide or Ultraviolet Light . . . . .	249
Danilevskaya, O.N., s. Dmitriev, A.D., et al. . . . .	317	Kaplan, J.G., s. Denis-Duphil, M. . . . .	259
Dawson, W.O., Jones, G.E.: A Procedure for Specifically Selecting Temperature Sensitive Mutants of Tobacco Mosaic Virus . . . . .	307	Kester, H.C.M., s. Bomhoff, G., et al. . . . .	177
Deka, P.C., Sen, S.K.: Differentiation in Calli Originated from Isolated Protoplasts of Rice ( <i>Oryza sativa</i> L.) through Plating Technique . . . . .	239	Khesin, R.B., s. Dmitriev, A.D., et al. . . . .	317
Denis-Duphil, M., Kaplan, J.G.: Fine Structure of the <i>URA2</i> Locus in <i>Saccharomyces cerevisiae</i> . II. Meiotic and Mitotic Mapping Studies . . . . .	259	Klapwijk, P.M., s. Bomhoff, G., et al. . . . .	177
Devoret, R., s. Lecocq, J.-P., et al. . . . .	63	Lathe, R., s. Lecocq, J.-P., et al. . . . .	63
Dmitriev, A.D., Danilevskaya, O.N., Khesin, R.B.: The Influence of Mutations upon the Synthesis of RNA Polymerase Subunits in <i>Escherichia coli</i> Cells . . . . .	317	Lecocq, J.-P., Dambly, C.: A Bacterial RNA Polymerase Mutant that Renders $\lambda$ Growth Independent of the <i>N</i> and <i>cro</i> Functions at 42 °C . . . . .	53
Egel, R.: The Genetic Instabilities of the Mating Type Locus in Fission Yeast . . . . .	281	Lecocq, J.-P., Dambly, C., Lathe, R., Babinet, C., Bailone, A., Devoret, R., Gathoye, A.M., Garcia, H., Wilde, M.De, Cabezón, T.: Nomenclature and Location of Bacterial Mutations Modifying the Frequency of Lysogenization of <i>E. coli</i> by Lambdoid Phages . . . . .	63
Fujiki, H., Palm, P., Zillig, W., Calendar, R., Sunshine, M.: Identification of a Mutation within the Structural Gene for the $\alpha$ Subunit of DNA-Dependent RNA Polymerase of <i>E. coli</i> . . . . .	19	Lemontt, J.F.: Induced Mutagenesis in <i>Ustilago maydis</i> . I. Isolation and Characterization of a Radiation-Reversible Allele of the Structural Gene for Nitrate Reductase . . . . .	125
Fukuhara, H., Bolotin-Fukuhara, M., Hsu, H.-J., Rabinowitz, M.: Deletion Mapping of Mitochondrial Transfer RNA Genes in <i>Saccharomyces cerevisiae</i> by Means of Cytoplasmic Petite Mutants . . . . .	7	Lemontt, J.F.: Induced Mutagenesis in <i>Ustilago maydis</i> . II. An in vivo Biochemical Assay . . . . .	133
Garcia, H., s. Lecocq, J.-P., et al. . . . .	63	Linnane, A.W., s. Hall, R.M., et al. . . . .	169
Gargano, S., Graziani, F.: Increase of rDNA Redundancy in <i>bb</i> Females of <i>Drosophila melanogaster</i> . . . . .	255	Linnane, A.W., s. Trembath, M.K., et al. . . . .	43
Gathoye, A.M., s. Lecocq, J.-P., et al. . . . .	63	Litwinska, J., s. Rytka, J., et al. . . . .	37
Gentner, N.E., Werner, M.M.: Effect of Protein Synthesis Inhibition on Recovery of UV- and $\gamma$ -irradiated <i>Schizosaccharomyces pombe</i> from Repair Inhibition by Caffeine . . . . .	1	Lukins, H.B., s. Trembath, M.K., et al. . . . .	43
Gots, J.S., s. Benson, C.E. . . . .	31	Maas, W.L. van der, s. Westmaas, G.C., et al. . . . .	81
Graziani, F., s. Gargano, S. . . . .	255	Maitra, P.K., s. Irani, M.H. . . . .	65
Haan, P.G. de, s. Hoekstra, W.P.M., et al. . . . .	109	Meuris, P., s. Wilcox, G. . . . .	97
		Molly, P.L., s. Trembath, M.K., et al. . . . .	43

Monti-Bragadin, C., Babudri, N., Samer, L.: Expression of the Plasmid pKM101—Determined DNA Repair System in <i>recA<sup>-</sup></i> and <i>lex<sup>-</sup></i> Strains of <i>Escherichia coli</i> . . . . .	303
Moore, P.D., s. Yarranton, G.T., et al. . . . .	215
Mount, D.W.: A Method for the Isolation of Phage Mutants Altered in Their Response to Lysogenic Induction . . . . .	165
Moustacchi, E., s. Julian, M.H., et al. . . . .	249
Murakami, S., Murakami, S., Yamaguchi, K., Yoshikawa, H.: Macromolecular Synthesis after a Nutritional Shift-up of <i>Bacillus subtilis</i> . . . . .	293
Muto, A., s. Taketo, M., et al. . . . .	311
Nagley, P., s. Hall, R.M., et al. . . . .	169
Nakamura, Y., Yura, T.: Effects of Rifampicin on Synthesis and Functional Activity of DNA-dependent RNA Polymerase in <i>Escherichia coli</i> . . . . .	227
Nüsslein, V., Henke, S., Johnston, L.H.: Replication of <i>E. coli</i> Duplex DNA in vitro. The Separation of the DNA Containing Fractions of a Lysate from the Soluble Enzymes and Their Complementation Properties . . . . .	183
Osawa, S., s. Taketo, M., et al. . . . .	311
Palm, P., s. Fujiki, H., et al. . . . .	19
Parry, J.M., s. Wilmore, P.J. . . . .	287
Potrykus, I., s. Thomas, E., et al. . . . .	245
Putte, P. van de, s. Westmaas, G.C., et al. . . . .	81
Rabinowitz, M., s. Fukuhara, H., et al. . . . .	7
Richardson, D., s. Covey, C., et al. . . . .	155
Rytka, J., Sledziwski, A., Litwinska, J., Bilinski, T.: Haemoprotein Formation in Yeast. II. Isolation of Catalase Regulatory Mutants . . . . .	37
Sainsard-Chanet, A.: Cene Controlled Selection of Mitochondria in <i>Paramecium</i> . . . . .	23
Samer, L., s. Monti-Bragadin, C., et al. . . . .	303
Schell, J., s. Bomhoff, G., et al. . . . .	177
Schilperoort, R.A., s. Bomhoff, G., et al. . . . .	177
Schmidt, F., Besemer, J., Starlinger, P.: The Isolation of IS1 and IS2 DNA . . . . .	145
Sen, S.K., s. Deka, P.C. . . . .	239
Sivasubramanian, N., Jayaraman, R.: Thiolutin Resistant Mutants of <i>Escherichia coli</i> . Are they RNA Chain Initiation Mutants? . . . . .	89
Sledziwski, A., s. Rytka, J., et al. . . . .	37
Smith, B.J.: Mutation of $\lambda$ during Prophage Induction by Nitrosamides . . . . .	219
Smith, H.R., s. Humphreys, G.O., et al. . . . .	101
Spanos, A., s. Yarranton, G.T., et al. . . . .	215
Sriprakash, K.S., s. Trembath, M.K., et al. . . . .	43
Starlinger, P., s. Schmidt, F., et al. . . . .	145
Staudenbauer, W.L.: Replication of Small Plasmids in Extracts of <i>Escherichia coli</i> . . . . .	273
Suda, K., s. Uchida, A. . . . .	159
Sunshine, M., s. Fujiki, H., et al. . . . .	19
Taketo, M., Ishihama, A., Muto, A., Osawa, S.: Peptide Analysis of RNA Polymerase $\alpha$ Subunit from <i>Escherichia coli</i> : Comparison of Free with Assembled Form . . . . .	311
Thomas, E., Hoffmann, F., Potrykus, I., Wenzel, G.: Protoplast Regeneration and Stem Embryogenesis of Haploid Androgenetic Rape . . . . .	245
Tittawella, I.P.B.: Evidence against Autorepression of the $\beta\beta'$ Operon in <i>Escherichia coli</i> . . . . .	223
Trembath, M.K., Molly, P.L., Sriprakash, K.S., Cutting, G.J., Linnane, A.W., Lukins, H.B.: Biogenesis of Mitochondria 44. Comparative Studies and Mapping of Mitochondrial Oligomycin Resistance Mutations in Yeast Based on Gene Recombination and Petite Deletion Analysis . . . . .	43
Uchida, A., Suda, K.: Pattern of Somatic Segregation of the Cytoplasmic Drug-Resistance Factors in Yeast . . . . .	159
Wenzel, G., s. Thomas, E., et al. . . . .	245
Werner, M.M., s. Gentner, N.E. . . . .	1
Westmaas, G.C., Maas, W.L. van der, Putte, P. van de: Defective Prophages of Bacteriophage Mu . . . . .	81
Wilcox, G., Meuris, P.: Stabilization and Size of <i>araC</i> Protein . . . . .	97
Wilde, M.De, s. Lecocq, J.-P., et al. . . . .	63
Willshaw, G.A., s. Humphreys, G.O., et al. . . . .	101
Wilmore, P.J., Parry, J.M.: Division Delay and DNA Degradation after Mutagen Treatment of the Yeast, <i>Saccharomyces cerevisiae</i> . . . . .	287
Yamaguchi, K., s. Murakami, S., et al. . . . .	293
Yarranton, G.T., Moore, P.D., Spanos, A.: The Influence of DNA Binding Protein on the Substrate Affinities of DNA Polymerase from <i>Ustilago maydis</i> : One Polymerase Implicated in Both DNA Replication and Repair . . . . .	215
Yoshikawa, H., s. Murakami, S., et al. . . . .	293
Yura, T., s. Nakamura, Y. . . . .	227
Zillig, W., s. Fujik, H., et al. . . . .	19
Zuidweg, E.M., s. Hoekstra, W.P.M., et al. . . . .	109
Erratum 111, 335	

Indexed in Current Contents

